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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/595,323	03/22/2007	Pier John Anthony Sazio	DYOUP0313US	7470	
23908 RENNER OT	7590 05/25/201 FO BOISSELLE & SKI	EXAM	EXAMINER		
1621 EUCLID AVENUE			FLETCHER III, WILLIAM P		
NINETEENTI CLEVELAND		ART UNIT	PAPER NUMBER		
		1715			
			MAIL DATE	DELIVERY MODE	
			05/25/2010	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) SAZIO ET AL. 10/595,323 Office Action Summary Examiner Art Unit William P. Fletcher III 1715 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET WHICHEVER IS LONGER, FROM THE MAILING DATE OF - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no after 53 K (6) MONTHS from the mailing date of this communication.	THIS COMMUNICATION.					
 If NO period for reply is specified above, the maximum statutory period will apply and Failure to reply within the set or extended period for reply will, by statute, cause the and Any reply received by the Office later than three months after the mailing date of this earned patent term adjustment. See 37 CFR 1.704(b). 	application to become ABANDONED (35 U.S.C. § 133).					
Status						
1) Responsive to communication(s) filed on 18 March 201	<u>10</u> .					
2a) This action is FINAL. 2b) This action is	non-final.					
3) Since this application is in condition for allowance exce	pt for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte	Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-54 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from	consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) <u>1-54</u> are subject to restriction and/or election r	requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or	b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s	s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is requ	uired if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Examiner.	Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority to	under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:						
 Certified copies of the priority documents have b 	een received.					
Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT R	* "					
* See the attached detailed Office action for a list of the ce	ertified copies not received.					
Attachment(s)						
1) Notice of References Cited (PTO-892)	Interview Summary (PTO-413) Paper No(s)/Mail Date					
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/00)	5) Notice of Informal Patent Application					

U.S.	Patent	and	Trade	nark	Offic
PT	OI -32	61	Rev	08-	06)

Paper No(s)/Mail Date _____

6) Other:

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DETAILED ACTION

Election/Restrictions

 This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so

linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

A. for the sample of microstructured material: elongated or planar;

 B. for the sample of microstructured material: glass, plastic, ceramic, semiconductor, metallic;

 for the functional material: metal, metal oxide, dielectric, superconductor, magnetic, ceramic, polymer, biological material; and

for the temperature gradient: dynamically varying or static.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise require all the limitations of an allowed generic claim. Currently, the following claim(s) are generic: 1.

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The claims are deemed to correspond to the species listed above in the following manner:

A. claim 6 or claim 8:

B. claim 12:

C. claim 13; and

D. claim 35 or claim 36.

The following claim(s) are generic: 1.

2. REQUIREMENT FOR UNITY OF INVENTION

As provided in 37 CFR 1.475(a), a national stage application shall relate to one invention only or to a group of inventions so linked as to form a single general inventive concept ("requirement of unity of invention"). Where a group of inventions is claimed in a national stage application, the requirement of unity of invention shall be fulfilled only when there is a technical relationship among those inventions involving one or more of the same or corresponding special technical features. The expression "special technical features" shall mean those technical features that define a contribution which each of the claimed inventions, considered as a whole, makes over the prior art.

The determination whether a group of inventions is so linked as to form a single general inventive concept shall be made without regard to whether the inventions are claimed in separate claims or as alternatives within a single claim. See 37 CFR 1.475(e).

At least one of each of the claimed species is taught by the references cited in the International Search Report. Consequently, unity is lacking a posteriori.

As provided in 37 CFR 1.475(b), a national stage application containing claims to

different categories of invention will be considered to have unity of invention if the

claims are drawn only to one of the following combinations of categories:

(1) A product and a process specially adapted for the manufacture of said

product; or

(2) A product and process of use of said product; or

(3) A product, a process specially adapted for the manufacture of the said

product, and a use of the said product; or

(4) A process and an apparatus or means specifically designed for carrying out

the said process; or

(5) A product, a process specially adapted for the manufacture of the said

product, and an apparatus or means specifically designed for carrying out the said

process.

Otherwise, unity of invention might not be present. See 37 CFR 1.475(c).

Applicant is advised that the reply to this requirement to be complete must

include (i) an election of a species or invention to be examined even though the

requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims

encompassing the elected invention.

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The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected invention or species.

Should applicant traverse on the ground that the inventions have unity of invention (37 CFR 1.475(a)), applicant must provide reasons in support thereof. Applicant may submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. Where such evidence or admission is provided by applicant, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

3. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William P. Fletcher III whose telephone number is (571) Art Unit: 1715

272-1419. The examiner can normally be reached on Sunday, $5:00 \ \text{AM} - 12:00 \ \text{PM}$ and

Monday through Friday, 5:00 AM - 3:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Timothy H. Meeks can be reached on (571) 272-1423. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/William Phillip Fletcher III/ Primary Examiner, Art Unit 1715

20 May 2010